

Instructions for UseRevision date: 27-Nov-20

Foot and Mouth Disease Virus Type A Antibody Rapid Test Kit**Catalog No.:** abx092129**Size:** 50 tests**Storage:** Store all reagents at 2-30 °C. Keep dry.**Application:** For qualitative detection of Avian Influenza Virus Antigen in Cow, Goat and Sheep serum.**Introduction and assay principle**

Abbexa's Foot and Mouth Disease Virus Type A Antibody Rapid Test Kit is a qualitative lateral flow immunochromatographic assay for the detection of Foot and Mouth Disease Virus Type A (FMDV-A) antibodies in Cow, Goat and Sheep serum and whole blood. The cassette contains a colloidal gold marker, which combines with any FMDV-A antibody present in the sample to form a complex, and migrates with the sample along the membrane. The test region of the cassette contains FMDV-A antigen, which combines with the complex. A colored band develops within 20 minutes in the test region if the concentration of FMDV-A antibody in the sample is higher than the detection limit. A control region on the upper end of the cassette confirms if the test has been successful.

Kit components

- Test cassettes (packaged in foil pouches containing disposable pipettes): 50
- Antibody Titer Color Card: 1

Sample preparation

Serum: Add 2-3 ml of blood into a clean and dry test tube. Leave at room temperature for 1 h to allow the blood to clot, then separate the serum by either centrifuging at 4000 RPM for 10 min or allowing the blood to clot for a further 2 h. The serum samples should be colorless with no visible hemolysis or contaminants, and can be stored at 2-8 °C for up to one week or at -20 °C for long-term storage.

Assay procedure

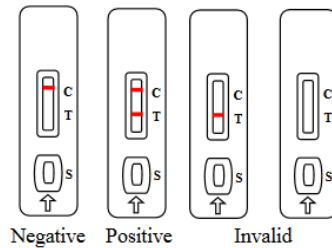
1. Take a test cassette and lay it flat on a clean table. Using the provided pipette, add 2-3 drops (approximately 60 µl) of prepared sample to the sample well on the test cassette. Avoid touching the membrane in the middle of the sample well, and avoid foaming.
2. Leave at room temperature for 10-20 min, then analyze the result. The result is invalid if read after 20 min.

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Results analysis

- **Negative result:** A line is observed in the control (C) section but not the test (T) section.
- **Positive result:** A line is observed in both the control (C) section and the test (T) section. A deeper color indicates a higher titer of FMDV-A antibody.
- **Invalid result:** No line is observed in the control (C) section.



If the animal has not been immunized with a FMDV-A vaccine:

- A negative result indicates that there are no FMDV-A antibodies present in the sample. If the animal is exhibiting acute symptoms, FMDV-A infection cannot be excluded.
- A positive result indicates that the animal may be infected with FMDV-A. It is recommended to use another detection method to confirm and analyze the result.

If the animal has previously been immunized with a FMDV-A vaccine:

- If the color of the test line \geq 1:32 titer of the color card, the result indicates that the animal has sufficient levels of protective FMDV-A antibodies.
- If the color of the test line $<$ 1:32 of the color card, the result indicates that the animal may have insufficient protective FMDV-A antibodies.

Notes

1. The test cassettes should be brought to room temperature before use.
2. After opening the aluminum foil, use the test cassette as soon as possible.
3. Samples should be clear with no visible particles, turbidity or bacterial pollution.
4. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
5. Do not use water, PBS or serum of other animals as the negative control.
6. Avoid touching the cassette membrane through the sample well or test result window.
7. This kit is for qualitative detection of FMDV-A antibodies in Cow, Goat and Sheep serum and whole blood.
8. This kit is for research use only.